

Please substitute the following claim 1 for the pending claim 1:

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cont.
1. (ONCE AMENDED) A hybrid electric vehicle power generation system, comprising:
- a turbogenerator/motor;
 - a DC bus;
 - a first power converter connecting said turbogenerator/motor and said DC bus, said first power converter serving as an AC to DC convertor when power is supplied from said turbogenerator/motor to said DC bus and as a DC to AC convertor when power is supplied from said DC bus to said turbogenerator/motor;
 - an energy storage device;
 - a second power converter connecting said energy storage device and said DC bus, said second power converter transferring power between said DC bus and said energy storage device;
 - said first and second power converters together serving to regulate DC bus voltage to a desired voltage independent of turbogenerator/motor speed.

[Please substitute the following claim 2 for the pending claim 2:]

2. (ONCE AMENDED) The system of claim 1 wherein said turbogenerator/motor includes a permanent magnet rotor.

[Please substitute the following claim 3 for the pending claim 3:]

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cont.

3. (ONCE AMENDED) The system of claim 1, further comprising:
a resistive load connected across said DC bus to dissipate power from said DC bus
whenever DC bus voltage exceeds the desired voltage.

[Please substitute the following claim 4 for the pending claim 4:]

4. (ONCE AMENDED) The system of claim 1 wherein said energy storage device is
a battery.

[Please substitute the following claim 5 for the pending claim 5:]

5. (ONCE AMENDED) The system of claim 1 wherein said energy storage device is
a flywheel.

[Please substitute the following claim 6 for the pending claim 6:]

6. (ONCE AMENDED) The system of claim 1 wherein said energy storage device is
an ultracapacitor.

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cancel.*

[Please substitute the following claim 8 for the pending claim 8:]

8. (ONCE AMENDED) A hybrid electric vehicle power generation system, comprising:
- a DC bus;
 - a permanent magnet turbogenerator/motor;
 - a battery;
 - a power controller that regulates DC bus voltage to a desired voltage independent of permanent magnet turbogenerator/motor speed, said power controller having
 - a first power converter, connecting said permanent magnet turbogenerator/motor and said DC bus, that serves as an AC to DC convertor when power is supplied from said permanent magnet turbogenerator/motor to said DC bus and as a DC to AC convertor when power is supplied from said DC bus to said permanent magnet turbogenerator/motor,
 - a second power converter, connecting said battery and said DC bus, that serves as a DC to DC converter when power is supplied from said DC bus to said battery and as a reverse DC to DC converter when power is supplied from said battery to said DC bus; and
 - a resistive load connected across said DC bus to dissipate power from said DC bus whenever DC bus voltage exceeds the desired voltage.

In the Drawings:

Please substitute updated Figures 6, 7, 8, 9, and 10, filed herewith as part of a Request to Correct Drawings, for pending Figures 6, 7, 8, 9, and 10.